



Approval #

980025-U
(Replaces 920103-U)

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2689
Madison, WI 53701-2689

Wisconsin Material Approval

Material

Coolthane FML87 and L3284NESU Flexible Dike Liners

Manufacturer

Cooley Incorporated
50 Esten Avenue
Pawtucket, Rhode Island 02860

SCOPE OF EVALUATION

The Coolthane flexible dike liners with model numbers FML87 and L3284NESU manufactured by Cooley Incorporated have been evaluated in accordance with **section ILHR 10.345(1)(e)** of the Wisconsin Administrative Flammable and Combustible Liquids Code.

DESCRIPTION AND USE

The Coolthane FML87 liner uses a polyester fabric which weighs 4.5 ounces per square yard. The fabric is coated with polyurethane to provide a finished weight of 30 or 35 ounces per square yard. The L3284NESU liner uses a woven nylon fabric which weighs 13 ounces per square yard. It is coated with polyurethane for a finished weight of 32 ounces per square yard.

Installation is accomplished in the field by the use of hot air to fusion-weld the seams. Compressed air (Lance Method) is used to inspect the welded seams. Seams fabricated at the factory must always outnumber field-fabricated seams by a factor of at 10 to 1.

TESTS AND RESULTS

Stetson Laboratories performed mechanical tests on the liners before and after a 7 day immersion in unleaded gasoline, Test Fuel B, ethanol and MTBE. The post-immersion tests were conducted both immediately after immersion and after immersion followed by 12 hours of venting in an oven. In all cases, the test results were within the acceptability limits established by the department.

LIMITATIONS OF APPROVAL

The liners shall be installed in accordance with manufacturer's instructions and **s. ILHR 10.345 (1) (e)**.

The liners are approved for use with MTBE, petroleum-based fuels and ethanol.

The liner shall be used with the soil covering required under section **ILHR 10.345 (1) (e) 2**.

Releases of product shall be addressed in accordance with the procedures specified in parts 5 and 6 of ILHR 10 subchapter VI. The liner or portions of the liner that came in contact with product shall be replaced when determined to be necessary as a part of the release remediation.

Tank foundation designs and any discontinuities in the liner within the diked area shall be shown on plans including the method for assuring an adequate product-tight barrier. Tank foundations shall be designed to minimize the possibility of uneven or excessive settling.

This approval will be valid through December 31, 2003, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Approval Date: _____ By: _____

Duane D. Hubeler
Mechanical Code Consultant
Program Development Bureau